

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/052,464	01/23/2002	Keiichi Iwamura	00862.022502	7514
5514	7590 08/04/2006		EXAMINER	
FITZPATRICK CELLA HARPER & SCINTO			SHIFERAW, ELENI A	
	ELLER PLAZA , NY 10112		ART UNIT PAPER NUMBER	
	,		2136	
			DATE MAILED: 08/04/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

,		Application No.	Applicant(s)			
Office Action Summary		10/052,464	IWAMURA, KEIICHI			
		Examiner	Art Unit			
•	-	Eleni A. Shiferaw	2136			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
,—	Responsive to communication(s) filed on 22 May 2006.					
,—	This action is FINAL . 2b)⊠ This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-11,16-19,22,25 and 26 is/are pending in the application.						
4a) Of the above claim(s) 12-15,20,21,23,24 and 27 is/are withdrawn from consideration.						
•	Claim(s) is/are allowed.	atod				
-	Claim(s) <u>1-11, 16-19, 22, and 25-26</u> is/are reject	ucu.				
• —	Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	election requirement.				
, —						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
	ce of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail D				
3) Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date		Patent Application (PTO-152)			

1

Application/Control Number: 10/052,464 Page 2

Art Unit: 2136

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 05/22/2006 has been entered.

Response to Amendments and Arguments

2. Applicant's arguments with respect to amended all independent claims and canceled claims 12-15, 20-21, 23-24, and 27 and presently pending claims 1-11, 16-19, 22, and 25-26 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1-6, 10-11, and 22 are rejected under 35 U.S.C. 102(e) as being anticipated by Acharya et al. USPN 6,449,380 B1.

Application/Control Number: 10/052,464

Art Unit: 2136

Regarding claims 1 and 22, Acharya et al. disclose a system/method for embedding a digital watermark in content, comprising:

a segmentation unit configured to segment objective content into a plurality of partial contents (fig. 2 element 110; *C(F)* or compressed image blocks/partial contents);

an encryption unit configured to encrypt at least one partial of the plurality of partial contents obtained by said segmentation means (col. 4 lines 6-18; E(B), B is selected from the compressed image blocks, B is compressed/divided into blocks and B is encrypted);

a digital watermarking unit configured to embed a digital watermark to the partial content encrypted by said encryption unit (col. 4 lines 26-65 and fig. 1 CE(F)); encrypted digital watermark is embedded into compressed image (C(F));

a decryption unit configured to decrypt the partial content encrypted by said encryption unit and in which the digital watermark is embedded by said digital watermarking unit (col. 5 lines 35-col. 6 lines 4; recovering encrypted watermark embedded on image data); and

a composition unit configured to combine the partial content obtained by said decryption unit and other partial content obtained by said segmentation unit (col. 5 lines 64-col. 6 lines 19; recovering encrypted watermarked blocks E(B) from compressed unencrypted blocks C(F) and combining recovered and unencrypted compressed blocks to form original image).

As per claim 2, Acharya et al. teaches the system, wherein said segmentation unit segments the objective contents on the basis of at least one of a frequency band of the objective contents, a feature of the objective contents, and a type of said digital watermarking unit (col. 2 lines 46-67).

As per claim 3, Acharya et al. teaches the system wherein one apparatus has said respective unit

(col. 2 lines 46-col. 3 lines 47).

As per claim 4, Acharya et al. discloses the system wherein said system is formed by a plurality

of apparatuses (col. 2 lines 46-col. 3 lines 47).

Regarding claim 5, Acharya et al. discloses the system wherein a first apparatus has said

segmentation unit, said encryption unit, said decryption unit and said composition unit, and a

second apparatus has said digital watermarking unit (col. 2 lines 46-col. 3 lines 47, and col. 5 lines

35-63; compressor, encryptor, decryptor, combiner and information embedded).

As per claim 6, Acharya et al. teaches the system, wherein said digital watermarking unit embeds a

digital watermark by a scheme corresponding to a purpose of use of the contents (col. 1 lines 17-23;

ownership... rights).

As per claim 10, Acharva et al. teaches the system, wherein said digital watermarking unit embeds

a digital watermark by a scheme corresponding to the objective contents (claim 1).

As per claim 11, Acharya et al. teaches the system, wherein said digital watermarking unit embeds

a digital watermark by a scheme corresponding to a format of the objective contents (col. 4 lines 18-

65).

Application/Control Number: 10/052,464

Art Unit: 2136

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

Page 5

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on

sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 16-19, and 25-26 are rejected under 35 U.S.C. 102(b) as being anticipated by

Zhao et al. USPN 6,141,753.

Regarding claims 16 and 25, Zhao et al. discloses an apparatus/method for embedding a digital

watermark in contents (abstract), comprising:

a discrimination unit configured to discriminate whether an output style of content is

outputting to a display or to a printer (col. 4 lines 7-24 and fig. 1; watermarker embedding

information to content based on users purchased use information.... UINF indicates how the

digital representation may be used/outputted whether it can be displayed, played, printed and

etc. and the prices to display and print are different); and

a digital watermarking unit configured to embed a digital watermark in the content by a

scheme corresponding to a discrimination result of said discrimination unit (col. 7 lines 53-col.

32 and col. 4 lines 7-24 and fig. 1).

Regarding claims 18 and 26, Zhao et al. discloses an apparatus for embedding a digital

watermark in contents, comprising:

a discrimination unit configured to discriminate a type of apparatus that outputs content (col. 4 lines 7-24 and fig. 1; watermarker embedding information to content based on users purchased use information.... UINF indicates how the digital representation may be used/outputted whether it can outputted as a display, play, print and etc); and

a digital watermark unit configured8 to embed a digital watermark in the content by a scheme corresponding to a discrimination result of said discrimination unit (col. 7 lines 53-col. 32 and col. 4 lines 7-24 and fig. 1).

Regarding claims 17, 19, Zhao et al. discloses an apparatus wherein said digital watermarking unit embeds a digital watermark having robustness corresponding to the output style (col. 11 lines 2-22).

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Acharya et al. USPN 6,449,380 B1in view of Kuroda et al. (Kuroda, Patent No.: US 6,707,774 B1).

As per claim 8, Acharya et al. teaches all the subject matter as described above. Acharya et al. fails to teach the system, wherein the purpose of use of the contents includes a process of the objective contents using an apparatus, and

said digital watermarking means embeds a digital watermark corresponding to a type of apparatus used.

However Kuroda discloses wherein the purpose of use of the contents includes a process of the objective contents using an apparatus, and said digital watermarking unit embeds a digital watermark corresponding to a type of apparatus used (Kuroda col. 25 lines 62-col. 26 lines 3).

Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention was made to embed digital watermark corresponding to a type of apparatus used. One skilled in the art would have been motivated to do so because it would protect digital content from being played/copied/printed on unauthorized type of apparatus.

As per claim 9, Acharya et al. and Kuroda teach all the subject matter as described above. In addition, Kuroda teaches the system, further comprising output unit for outputting the objective contents after digital watermarking in a data format corresponding to the type of apparatus used (Kuroda col. 25 lines 13-27). The rational for combining are the same as claim 8 above.

9. Claim 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Acharya et al. USPN 6,449,380 Blin view of Zhao et al. USPN 6,141,753.

As per claim 7, Acharya et al. discloses wherein said digital watermarking unit embeds a digital watermark having robustness corresponding to the purpose of use (col. 6 lines 23-47).

Acharya et al. fails to explicitly disclose wherein the purpose of use of the contents includes at least one of a print process and monitor process.

However Zhao et al. teaches the system/apparatus, wherein the purpose of use of the contents includes at least one of a print process and monitor process (col. 4 lines 7-24, col. 7 lines 53-col. 8 lines 32, and fig. 1; watermarker embedding information to content based on users purchased use information.... UINF indicates how the digital representation may be used/outputted whether it can be displayed, played, printed and etc. and the prices to display and print are different).

Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention was made to employ the well-known copyright use information of Zhao et al. within the system of Acharya because it would provide rights protection. One would have been motivated to do so because it would restrict use of content to the amount the user paid and protect unauthorized outputting of content.

Conclusion

Any inquiry concerning this communication or earlier communications from the 10. examiner should be directed to Eleni A. Shiferaw whose telephone number is 571-272-3867. The examiner can normally be reached on Mon-Fri 8:00am-5:00pm.

Application/Control Number: 10/052,464

Art Unit: 2136

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz R. Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ZE.S. Slands 1 2006

NASSER MOAZZAMI PRIMARY EXAMINER Page 9

N. 8, 1,06